



SPEC® CINT2006 Result

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Hewlett-Packard Company

SPECint®2006 = 8.18

HP BladeSystem bc2500 Blade PC
(1.6GHz AMD Athlon 64 X2 3000+)

SPECint_base2006 = 7.29

CPU2006 license: 3

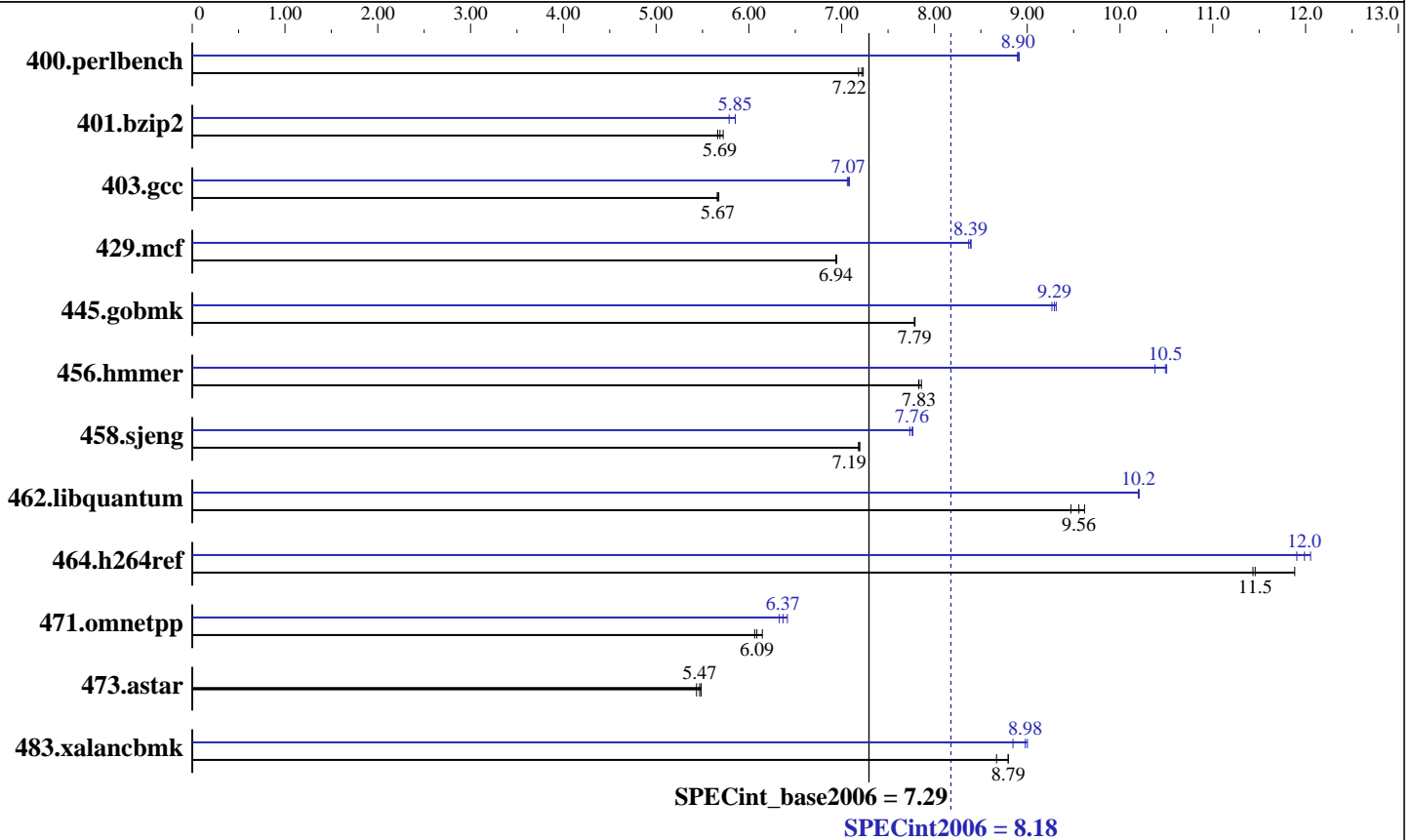
Test sponsor: Hewlett-Packard Company

Tested by: AMD Performance Labs

Test date: Dec-2007

Hardware Availability: Jun-2007

Software Availability: Mar-2008



Hardware

CPU Name: AMD Athlon 64 X2 3000+
 CPU Characteristics:
 CPU MHz: 1600
 FPU: Integrated
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
 CPU(s) orderable: 1 chip
 Primary Cache: 64 KB I + 64 KB D on chip per core
 Secondary Cache: 512 KB I+D on chip per core
 L3 Cache: None
 Other Cache: None
 Memory: 4 GB (2x2GB, DDR2-667 CL5 ECC Reg Dual Rank)
 Disk Subsystem: 1x80 GB SATA, 5400 RPM
 Other Hardware: None

Software

Operating System: SUSE Linux Enterprise Server 10 (x86_64) SP1, Kernel 2.6.16.46-0.12-smp
 Compiler: QLogic PathScale Compiler Suite, Release 3.0
 Auto Parallel: No
 File System: ext3
 System State: Multi-user, run level 3
 Base Pointers: 32/64-bit
 Peak Pointers: 32/64-bit
 Other Software: SmartHeap 8.0 32 bit Library for Linux



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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	1354	7.22	1360	7.18	1351	7.23	1098	8.89	1098	8.90	1096	8.91
401.bzip2	1704	5.66	1686	5.72	1696	5.69	1668	5.79	1648	5.85	1649	5.85
403.gcc	1423	5.66	1418	5.68	1421	5.67	1140	7.06	1136	7.08	1138	7.07
429.mcf	1314	6.94	1313	6.95	1314	6.94	1086	8.39	1087	8.39	1090	8.37
445.gobmk	1347	7.79	1346	7.79	1348	7.78	1132	9.27	1126	9.31	1129	9.29
456.hmmer	1191	7.83	1187	7.86	1192	7.83	888	10.5	899	10.4	890	10.5
458.sjeng	1685	7.18	1682	7.20	1684	7.19	1558	7.77	1565	7.73	1559	7.76
462.libquantum	2154	9.62	2188	9.47	2168	9.56	2032	10.2	2031	10.2	2030	10.2
464.h264ref	1932	11.5	1936	11.4	1862	11.9	1859	11.9	1836	12.1	1846	12.0
471.omnetpp	1031	6.06	1017	6.14	1027	6.09	982	6.37	988	6.33	974	6.41
473.astar	1291	5.44	1280	5.49	1284	5.47	1291	5.44	1280	5.49	1284	5.47
483.xalancbmk	785	8.79	796	8.67	785	8.80	780	8.85	768	8.98	767	9.00

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

Base Compiler Invocation

C benchmarks:
pathcc

C++ benchmarks:
pathCC

Base Portability Flags

```

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
401.bzip2: -DSPEC_CPU_LP64
403.gcc: -DSPEC_CPU_LP64
429.mcf: -DSPEC_CPU_LP64
445.gobmk: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64
458.sjeng: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX
464.h264ref: -DSPEC_CPU_LP64
483.xalancbmk: -DSPEC_CPU_LINUX

```

Base Optimization Flags

C benchmarks:
-Ofast -OPT:malloc_alg=1

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Base Optimization Flags (Continued)

C++ benchmarks:

-Ofast -m32 -L/cpu2006/mpaton/1.0/amd514K8.lib/32 -lsmartheap

Peak Compiler Invocation

C benchmarks:

pathcc

C++ benchmarks:

pathCC

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
401.bzip2: -DSPEC_CPU_LP64
445.gobmk: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64
458.sjeng: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX
464.h264ref: -DSPEC_CPU_LP64
483.xalancbmk: -DSPEC_CPU_LINUX

Peak Optimization Flags

C benchmarks:

400.perlbench: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -Ofast
-LNO:opt=0
401.bzip2: -O3 -LNO:ou_prod_max=10 -OPT:Ofast -OPT:alias=disjoint
403.gcc: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -m32 -O3
-OPT:Ofast
429.mcf: -m32 -O3 -ipa
-L/cpu2006/mpaton/1.0/amd514K8.lib/32 -lsmartheap
445.gobmk: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -O3
-OPT:alias=disjoint -LNO:simd=0 -LNO:minvariant=off
-WOPT:retype_expr=on
456.hmmer: -O2 -OPT:alias=disjoint -OPT:malloc_alg=1 -CG:cflow=0

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Peak Optimization Flags (Continued)

458.sjeng: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -O3
-IPA:plimit=50000 -IPA:pu_reorder=2

462.libquantum: -O3 -ipa -CG:local_fwd_sched=on -IPA:space=1000

464.h264ref: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -O3
-IPA:plimit=20000 -OPT:alias=disjoint -LNO:prefetch=0

C++ benchmarks:

471.omnetpp: -Ofast -CG:gcm=off -m32
-L/cpu2006/mpaton/1.0/amd514K8.lib/32 -lsmarheap

473.astar: basepeak = yes

483.xalancbmk: -Ofast -m32 -OPT:unroll_times_max=8
-L/cpu2006/mpaton/1.0/amd514K8.lib/32 -lsmarheap

The flags file that was used to format this result can be browsed at

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.html

You can also download the XML flags source by saving the following link:

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.xml

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